

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

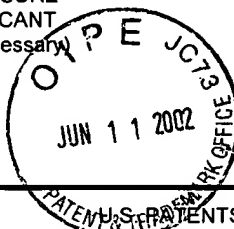
June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))



Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
<i>JK</i>	5,834,216	11/10/98	Roizman et al.	435	7.21	9/6/95
<i>JK</i>	6,187,557 B1	2/13/01	Rothe et al.	435	69.1	12/8/95

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
<i>JK</i>	WO 94/06814	31/3/94	PCT			
<i>JK</i>	WO 95/19431	20/7/95	PCT			
<i>JK</i>	WO 95/28497	26/10/95	PCT			
<i>JK</i>	WO 96/12016	25/4/96	PCT			
<i>JK</i>	WO 97/06182	20/2/97	PCT			
<i>JK</i>	WO 97/06255	20/2/97	PCT			
<i>JK</i>	WO 97/26331	24/7/97	PCT			
<i>JK</i>	WO 98/22131	28/5/98	PCT			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

<i>JK</i>	Birnbaum et al., "An apoptosis-inhibiting gene from a nuclear polyhedrosis virus encoding a polypeptide with Cys/His sequence motifs," <i>J. Virol.</i> , 68:2521, (1994)
<i>JK</i>	Branch, "A good antisense molecule is hard to find," <i>TIBS</i> , Vol. 23, p. 45, (1998)
<i>JK</i>	Campbell, <i>Monoclonal Antibody Technology</i> , Elsevier Science, Publishers B.V. New York, NY, (1984)
<i>JK</i>	Cheng et al., "Staurosporine, K-252a, and K-252b Stabilize Calcium Homeostasis and Promote Survival of CNS Neurons in the Absence of Glucose," <i>J. Neurochem.</i> , 62:1319, (1994)
<i>JK</i>	Clem et al., "Anti-apoptotic genes of baculovirus," <i>Cell Death Different.</i> , 3:9, (1996)
<i>JK</i>	Clem et al., "Induction and inhibition of apoptosis by insect viruses," <i>Apoptosis II: The Molecular Basis of Apoptosis in Disease</i> , Cold Spring Harbor Laboratory Press, p. 89, (1994)
<i>JK</i>	Clem et al., "Prevention of apoptosis by a baculovirus gene during infection of insect cells," <i>Science</i> 254:1388, (1991)
<i>JK</i>	Clem et al., "Control of programmed cell death by the baculovirus genes p35 and IAP," <i>Mol. Cell Biol.</i> , 14:5212, (1994)
<i>JK</i>	Crocker et al., "Adenovirus-mediated NAIP overexpression confers protection against global ischemia," <i>Soc. Neurosci. Abstr.</i> , 464.18, (1996)

EXAMINER

Metzger-Ford

DATE CONSIDERED

11-14-02

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

#6

RECEIVED

JUN 18 2002

Sheet 2 of 6SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

<i>JK</i>	Crook et al., "An apoptosis-inhibiting baculovirus gene with a zinc finger-like motif," <i>J. Virol.</i> , 67:2168, (1993)
	Dhein et al., "Autocrine T-cells suicide mediated by APO-1 (Fas/CD95)," <i>Nature</i> , 373:438, (1995)
	Duckett et al., "A conserved family of cellular genes related to the baculovirus IAP gene and encoding apoptosis inhibitors," <i>EMBO J.</i> , 15:2685, (1996)
	Fernandez et al., "Differential sensitivity of normal and ha-ras-transformed c3h mouse embryo fibroblasts to tumor necrosis factor: induction of <i>bcl-2</i> , <i>c-myc</i> , and manganese superoxide dismutase in resistant cells," <i>Oncogene</i> , 9:2009, (1994)
	Ferrari et al., "N-acetylcysteine (D- and L-stereoisomers) prevents apoptotic death of neuronal cells," <i>J. Neurosci.</i> , 15:2857, (1995)
	Fisher et al., "Dominant interfering Fas gene mutations impair apoptosis in a human autoimmune lymphoproliferative syndrome," <i>Cell</i> , 81:935, (1995)
	Francis et al., "The response of GABAergic and cholinergic neurons to Transient Cerebral Ischemia," <i>Brain Res.</i> , 243:271, (1982)
	Gibellini et al., "Tat-expressing Jurkat cells show an increased resistance to different apoptic stimuli, including acute human immunodeficiency virus-type 1 (HIV-1) infection," <i>Br. J. Haematol.</i> , 89:24, (1995)
	Glicksman et al., "K-252a and staurosporine promote choline acetyltransferase activity in rat spinal cord cultures," <i>J. Neurochem.</i> , 61:210, (1993)
	Glicksman et al., "K-252a analog prevents developmentally programmed motoneuron death and the loss of chat activity in adult motoneurons <i>in vivo</i> ," <i>Soc. Neurosci. Abstr.</i> , 441, (1994)
<i>JK</i>	Glicksman et al., "K-252a promotes survival and choline acetyltransferase activity in striatal and basal forebrain neuronal cultures," <i>J. Neurochem.</i> , 64:1502, (1995)

EXAMINER

Janet L. Eggs-Ford

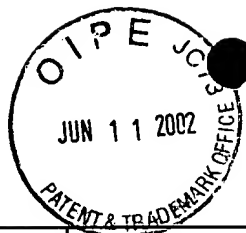
DATE CONSIDERED

11-15-02

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

RECEIVED

JUN 18 2002

Sheet 3 of 6SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

TECH CENTER 1600/2900

RECEIVED
JUN 18 2002

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

<i>Gr</i>	Golstein et al., "Homology between reaper and the cell death domains of Fas and TNFR1," <i>Cell</i> , 81:185, (1995)
	Goruppi et al., "Dissection of c-myc domains involved in S phase induction of NIH3T3 fibroblasts," <i>Oncogene</i> , 9:1537, (1994)
	Harrington et al., "c-Myc-induced apoptosis in fibroblasts is inhibited by specific cytokines," <i>EMBO J.</i> , 13:3286, (1994)
	Itoh et al., "A novel protein domain required for apoptosis. Mutational analysis of human Fas antigen," <i>J. Biol. Chem.</i> , 268:10932, (1993)
	Katsikis et al., "Fas antigen stimulation induces marked apoptosis of T lymphocytes in human immunodeficiency virus-infected individuals," <i>J. Exp. Med.</i> , 18:2029, (1995)
	Kerr, "Neglected opportunities in apoptosis research," <i>Trends Cell Biol.</i> , 5:55, (1995)
	Korsmeyer, "Regulators of cell death," <i>TIGS</i> , 11:101, (1995)
	Li et al., "Induction of apoptosis in uninfected lymphocytes by HIV-1 Tat protein," <i>Science</i> , 268:429, (1995)
	Liston et al., "Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP genes," <i>Nature</i> , 397:349, (1996)
	Martin et al., "HIV-1 infection of human CD4 ⁺ T cells <i>in vitro</i> . Differential induction of apoptosis in these cells," <i>J. Immunol.</i> , 152:330, (1994)
	Melino et al., "Tissue transglutaminase and apoptosis: sense and antisense transfection studies with human neuroblastoma cells," <i>Mol. Cell Biol.</i> , 14:6584, (1994)
<i>Gr</i>	Murayama et al., "Immunocytochemical and ultrastructural studies of Werdnig-Hoffmann disease," <i>Acta Neuropathol.</i> , 81:408, (1991)

EXAMINER <i>Janet J. Epps-Ford</i>	DATE CONSIDERED <i>11-15-02</i>
------------------------------------	---------------------------------

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

Sheet 4 of 6SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

<i>JK</i>	Muro-Cacho et al., "Analysis of apoptosis in lymph nodes of HIV-infected persons: Intensity of apoptosis correlates with the general state of activation of the lymphoid tissue and not with stage of disease or viral burden," <i>J. Immunol.</i> , 154:5555, (1995)
<i>JK</i>	Nakanshi et al., "K-252a, a novel microbial product, inhibits smooth muscle myosin light chain kinase," <i>J. Biol. Chem.</i> , 23:6215, (1988)
	Nunez et al., "The Bcl-2 family of proteins: regulators of cell death and survival," <i>Trends Cell Biol.</i> , 4:399, (1994)
	Osborne et al., "Essential genes that regulate apoptosis," <i>Trends Cell Biol.</i> , 4:394, (1994)
	Peterson et al., "Loss of GABAergic neurons in medial septum after fimbria-fornix transection," <i>Neurosci. Lett.</i> , 76:140, (1987)
	Pulsinelli et al., "Temporal profile of neuronal damage in a model of transient forebrain ischemia," <i>Ann. Neurol.</i> , 11:491, (1982)
	Rabizadeh et al., "Expression of the baculovirus p35 gene inhibits mammalian neural cell death," <i>J. Neurochem.</i> , 61:2318, (1993)
	Ridoux et al., "The use of adenovirus vectors for intracerebral grafting of transfected nervous cells," <i>Neuroreport</i> , 5:801-804, (1994)
	Ridoux et al., "Adenoviral vectors as functional retrograde neuronal tracers," <i>Brain Res.</i> , 648:171-175, (1994)
	Ridoux et al., "Ex vivo culture of adult microglial cells from previously lesioned rat brains," <i>C.R. Acad. Sci. III</i> , 317:217, (1994)
<i>JK</i>	Rieux-Laucat et al., "Mutations in Fas associated with human lymphoproliferative syndrome and autoimmunity," <i>Science</i> , 268:1347, (1995)

EXAMINER

Janet L. Epps Ford

DATE CONSIDERED

11-18-02

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

RECEIVED

JUN 18 2002

Sheet 5 of 6SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

	Robertson et al., "Neuroprotective effects of K252a in cerebral ischemia: The NAIP connection," <i>Soc. Neurosci. Abstr.</i> , 654.8, (1996)
	Rosenbaum et al., "Evidence for hypoxia-induced, programmed cell death of cultured neurons," <i>Ann. Neurol.</i> , 36:864, (1994)
	Rothe et al., "The TNFR2-TRAF signaling complex contains two novel proteins related to baculoviral inhibitor of apoptosis proteins," <i>Cell</i> , 83:1243, (1995)
	Roy et al., "The gene for neuronal apoptosis inhibitory protein is partially deleted in individuals with spinal muscular atrophy," <i>Cell</i> , 80:167, (1995)
	Sato et al., "Neuronal differentiation of PC12 cells as a result of prevention of cell death by <i>bcl-2</i> ," <i>J. Neurobiol.</i> , 25:1227, (1994)
	Sauer et al., "Progressive degeneration of nigrostriatal dopamine neurons following intrastriatal terminal lesions with 6-hydroxydopamine: a combined retrograde tracing and immunocytochemical study in the rat," <i>Neuroscience</i> , 59:401, (1994)
	Semba et al., "Organization of central cholinergic systems," <i>Prog. Brain Res.</i> , 79:36, (1989)
	Smith-Swintosky et al., "K252A, K252B and staurosporine increase hippocampal neuron survival and improve water maze performance after kainate," <i>Soc. Neurosci. Abstr.</i> , 2130, (1995)
	Steiman et al., "Infantile neuronal degeneration masquerading as Werdnig-Hoffmann disease," <i>Ann. Neurol.</i> , 8:317, (1980)
	Steller, "Mechanisms and genes of cellular suicide," <i>Science</i> , 267:1445, (1995)
	Talley et al., "Tumor necrosis factor alpha-induced apoptosis in human neuronal cells: Protection by the Antioxidant N-Acetylcysteine and the genes <i>bcl-2</i> and <i>cmaA</i> ," <i>Mol. Cell Biol.</i> , 15:2359, (1995)

EXAMINER

DATE CONSIDERED

11-15-02

EXAMINER: initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

JUN 18 2002

RECEIVED

Sheet 6 of 6SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Attorney Docket No.

07891/009004

Serial No.

09/974,592

Applicant

Robert G. Korneluk et al.

Filing Date

October 9, 2001

Group

1635

IDS Filed

June 4, 2002

Customer No.

21559

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)

(37 C.F.R. §1.98(b))

U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

<i>Je</i>	Terai et al., "Apoptosis as a mechanism of cell death in cultured T lymphoblasts acutely infected with HIV-1," <i>J. Clin. Invest.</i> , 87:1710, (1991)
	Tetzlaff et al., "Changes in cytoskeletal proteins in the rat facial nucleus following axotomy," <i>J. Neurosci.</i> , 8:3181, (1988)
	Towfighi et al., "Is Werdnig-Hoffman disease a pure lower motor neuron disorder?," <i>Acta Neuropathol.</i> , 65:270, (1985)
	Vossbeck et al., "Direct transforming activity of TGF-beta on rat fibroblasts," <i>Int. J. Cancer</i> , 61:92, (1995)
	Walkinshaw et al., "Induction of apoptosis in catecholaminergic PC12 cells by L-DOPA. Implications for the Treatment of Parkinson's Disease," <i>J. Clin. Invest.</i> , 95:2458, (1995)
	Westendorp et al., "Sensitization of T cells to CD95-mediated apoptosis by HIV-1 Tat and gp120," <i>Nature</i> , 375:497, (1995)
	White et al., "Genetic control of programmed cell death in <i>Drosophila</i> ," <i>Science</i> , 264:677, (1994)
	Williams et al., "Apoptosis: final control point in cell biology," <i>Trends Cell Biol.</i> , 2:263, (1992)
	Wyllie, "Death gets a brake," <i>Nature</i> , 369:272, (1994)
	Xu et al., "Elevation of neuronal expression of NAIP reduces ischemic damage in the rat hippocampus," <i>Nature Medicine</i> , 3:997, (1997)
<i>Je</i>	Xu et al., "Distribution of neuronal apoptosis inhibitory protein-like immunoreactivity in the rat central nervous system," <i>J. Comp. Neurol.</i> 382:247, (1997)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.

RECEIVED
JUN 18 2002